



Title:	Comp Research Project Implem. APPROVED
Long Title:	Comp Research Project Implem.
Module Code:	COMP9028
Credits:	20
NFQ Level:	Expert
Field of Study:	Computer Science
Valid From:	Semester 1 - 2017/18 (September 2017)
Module Delivered in	2 programme(s)
Module Coordinator:	Donna OShea
Module Author:	Donna OShea
Module Description:	Prior to completing this module the student through the employment of various research methods and selected practices will have identified their chosen research question. As part of this module, the student will complete their research project and implementation relevant to their field or domain of expertise. The student will be expected to disseminate the research work and outcomes through an oral/poster presentation and submission of a dissertation.
Learning Outcomes	
<i>On successful completion of this module the learner will be able to:</i>	
LO1	Plan and implement self directed learning to further knowledge and understanding to address and/or support chosen research question.
LO2	Establish a contribution to the development of knowledge in the specific discipline.
LO3	Apply appropriate written and oral communication skills and synthesise the research work in the form of presentation, abstracts, executive summaries, technical papers and a dissertation as appropriate to support the development of the research question.
LO4	Prepare a dissertation that details and evaluates the work undertaken and justifies the conclusions reached.
Pre-requisite learning	
Module Recommendations <i>This is prior learning (or a practical skill) that is strongly recommended before enrolment in this module. You may enrol in this module if you have not acquired the recommended learning but you will have considerable difficulty in passing (i.e. achieving the learning outcomes of) the module. While the prior learning is expressed as named CIT module(s) it also allows for learning (in another module or modules) which is equivalent to the learning specified in the named module(s).</i>	
COMPUTING RESEARCH AND PRACTICES [243]. This module may be completed in parallel with the Research Project.	
Incompatible Modules <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module. You may not earn additional credit for the same learning and therefore you may not enrol in this module if you have successfully completed any modules in the incompatible list.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed. You may not enrol on this module if you have not acquired the learning specified in this section.</i>	
Computing Research & Practice	

<i>Co-requisites</i>
No Co Requisites listed

Module Content & Assessment

Indicative Content

Content

A mandatory requirement of the programme is the development of a research project in an area that complements the student's continuing professional development. Prior to taking this module, the student will have selected their research question which will be further developed, investigated and implemented as part of this module. Considerable latitude, will be given to the student in the choice of subject material and medium for the project, thereby allowing assessment of selectivity and creativity. The project is used to assess: the learner's initiative; ability to learn autonomously and to conduct research; range of know-how and skill; the judgement exercised by the learner in approaching the brief; level of analysis and synthesis leading to conclusions. Creative competences and the ability to organise material are tested in the oral presentation and report.

General

Supervised self directed learning that addresses the learning outcomes, draws on the overall curriculum content and critically evaluates a specific research problem.

Oral and poster presentation

Disseminate the research work and outcomes and communicate effectively, through oral and poster presentations. This will include an in-depth question and answer session.

Dissertation

Present a dissertation which communicates and disseminates the research work undertaken and the research outcomes developed. The dissertation should include the analysis undertaken, results of the work and how this work contributes to furthering knowledge in the specific field of research. The learner must demonstrate a deep and fundamental understanding of the specific research problem addressed.

Assessment Breakdown

	%
Course Work	100.00%

Course Work

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Written Report	Submit a mid term report and present their work summarising the workplan with the aim of demonstrating project progress and deliverables achieved and intended scientific contribution to the field of study.	1,2,3	20.0	Week 6
Project	Dissertation submission outlining the topic, research question and methodology, project, findings and plan. The student will also be expected to demonstrate their project through a presentation and/or demonstration.	1,2,3,4	80.0	Sem End

No End of Module Formal Examination

Reassessment Requirement

Coursework Only

This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.

The institute reserves the right to alter the nature and timings of assessment



Module Workload

Workload: Full Time				
<i>Workload Type</i>	<i>Workload Description</i>	<i>Hours</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Review of progress and meeting with supervisor.	1.0	Every Week	1.00
Independent & Directed Learning (Non-contact)	Project work and independent learning.	27.0	Every Week	27.00
Total Hours				28.00
Total Weekly Learner Workload				28.00
Total Weekly Contact Hours				1.00

Workload: Part Time				
<i>Workload Type</i>	<i>Workload Description</i>	<i>Hours</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Review of progress and meeting with supervisor.	1.0	Every Week	1.00
Independent & Directed Learning (Non-contact)	Project work and independent learning.	27.0	Every Week	27.00
Total Hours				28.00
Total Weekly Learner Workload				28.00
Total Weekly Contact Hours				1.00

Module Resources

Recommended Book Resources

- Martyn Denscombe 2014, *The Good Research Guide*, 5 Ed., Open University Press, McGraw-Hill Education [ISBN: 9780335264704]

Supplementary Book Resources

- Dennis Lock 2007, *Project management*, Gower Aldershot [ISBN: 978-0566087721]
- K. Schwalbe 2011, *Information Technology Project Management*, 6 Ed., Cengage Learning [ISBN: 9781111221751]
- James D. Lester 2014, *Writing Research Papers: A Complete Guide*, 15 Ed., Pearson [ISBN: 9780321952950]
- Prabhat Pandey and Meenu Mishra Pandey 2015, *Research Methodology: Tools and Techniques*, 1 Ed., Bridge Center [ISBN: 9786069350270]
- Steven J. Taylor, Robert Bogdan, Marjorie DeVault 2016, *Introduction to Qualitative Research Methods: A Guidebook and Resource*, 4 Ed., Wiley [ISBN: 9781118767214]
- John A. Sharp, John Peters, Keith Howard 2002, *The Management of a Student Research Project*, Routledge [ISBN: 9780566084904]

Recommended Article/Paper Resources

- Jeanne W. Halpern 1988, *Getting in deep: Using qualitative research in business and technical communication*, Journal of Business and Technical Communication, 2(2), 22
- Carolyn D. Rude 2009, *Mapping the research questions in technical communication*, Journal of Business and Technical Communication

Other Resources

- Website: *Developing a Thesis*
<http://writingcenter.fas.harvard.edu/pages/developing-thesis>

Module Delivered in

Programme Code	Programme	Semester	Delivery
CR_KCLDC_9	<u>Master of Science in Cloud Computing</u>	2	Mandatory
CR_KSADE_9	<u>Master of Science in Software Architecture & Design</u>	2	Mandatory